Ocean Waves Tech, Inc.

Auth Bill Pro V2

The **Auth Bill Pro** system is a complex, multi-functional application designed for managing authorizations, invoicing, and expenditures within an organization or for specific clients. Here's a summary of the various components and functionalities.

**1. Database Structure**

* **Tables**:
  + **Participants**: Contains participant information linked with authorizations, activities and invoices.
  + **Auth**: Holds details about authorizations, including start and end dates, total and remaining billable hours.
  + **Activities**: Logs activities under specific authorizations with details about type, date, case notes, and billable hours.
  + **Activity Types(Categories)**: Defines types of activities that can be recorded.
  + **Invoices and Invoice Details**: Manages invoicing, associating invoices with activities and participants, and detailed breakdowns.
  + **Expenditures**: Tracks expenses with references to vendors, categories, and payment methods.
  + **Vendors**: Information about vendors providing services or goods.
  + **Categories**: Categorization of expenditures for organizational purposes.
  + **Payment Methods**: Details of different methods of payment available.

**2. Functionality**

* **Form and Report Management**:
  + **Auth Form**: Manages and tracks authorization details including the use of billable hours.
  + **Activities Form**: Allows entry and modification of activities related to specific authorizations.
  + **Invoice Generation**: Automatically generates invoices based on activities within the authorized date range, includes error handling for date mismatches.
  + **Expenditure Management**: Input and tracking of expenditures, including vendor, category, and payment method, with the ability to report status (e.g., overdue based on remit period).
* **Special Features**:
  + **Running Totals**: Calculations for tracking running totals of expenditures
  + **Date Validations**: Ensures activities and invoices fall within the specified authorization period.
  + **Dynamic Queries**: For generating reports and extracting specific information across different modules.

**3. User Interaction and Accessibility**

* **User-Friendly Forms**: Forms like frmExpenditures and frmGenerateInvoices designed to ensure ease of data entry and processing.
* **Informative Messages**: User prompts and confirmations to ensure data integrity and inform users of system states (e.g., successful data entry, errors).
* **Automatic Transitions**: Moves to a new record upon form load and after saving, enhancing user workflow.

**4. VBA and SQL Integration**

* **Custom VBA Scripts**: Enhance forms with functionalities such as auto-saving, direct feedback on actions, and conditional content display.
* **SQL Queries**: Robust queries for fetching, sorting, and displaying data, including complex joins and nested queries for comprehensive data management.

**5. Future Enhancements**

* Potential enhancements could include implementing more advanced reporting capabilities, integrating more dynamic data interactions, and expanding user access controls for better data security and integrity